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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/803,474 | 03/17/2004 | Stan Cheng | 23724-08325 | 5465 |
| 758 | 7590 | 11/01/2005 | EXAMINER | |
| FENWICK & WEST LLP SILICON VALLEY CENTER 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94041 | | | NELSON, JAMES T | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3637 | |

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/803,474 | Applicant(s) CHENG, STAN | |
| | Examiner James T. Nelson | Art Unit 3637 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 March 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☒ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>05/09/2005</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Oath/Declaration

1. The "Title of the Application" on the declaration contains misspelling(s): Chassis is misspelled "Chasis". A new oath or declaration in compliance with 37 CFR 1.67(a) is required.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "at least one computer component" of claim 8, the "hollow tab configured to fit around a perimeter of the rounded portions of the chassis frame" of claim 10, the "convex surface on an upwardly facing plane of the frame wherein the convex surface is configured to support a chassis cover" of claim 12, and the "plurality of drives of different sizes" of claim 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.
3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted

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after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claim 14 is objected to because of the following informalities: The phrase “an interface structures” is grammatically incorrect. Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 10 and 12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The phrases “wherein the removable structure includes a hollow tab configured to fit around a perimeter of the rounded portions of the chassis frame,” of claim 10, and “having a convex surface on an upward facing plane of the frame wherein the convex surface is configured to support a chassis cover,” of claim 12, are not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.

8. Claim 3 recites the limitation “the rail” on page 7. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-2, 4-6, and 12-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Cook (U.S. Patent 6,053,586).

Regarding claim 1: In Fig. 2, Cook shows a chassis frame (10) having a load-bearing surface (12), and one or more rounded portions (P) on the load-bearing surface (12), each rounded portion (P) protruding upwardly from the load-bearing surface (12) and configured to support a chassis cover installed on the chassis frame (10).

Regarding claim 2: In Fig. 2, Cook shows a chassis frame (10) as described in claim 1. The phrase “for a small form factor computer” constitutes intended use and is given no patentable weight.

Regarding claim 4: In Fig. 2, Cook shows a chassis frame (10) as described in claim 1, wherein each rounded portion (P) has a flat top surface (F) to support a chassis cover.

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Regarding claim 5: In Fig. 2, Cook shows a chassis frame (10) as described in claim 1, wherein each rounded portion (P) is formed integrally into the load-bearing surface (12) on the computer chassis frame (10).

Regarding claim 6: In Fig. 2, Cook shows a chassis frame (10) as described in claim 1, wherein each rounded portion (P) is mounted to the load-bearing surface (12) of the computer chassis frame (10).

Regarding claim 12: In Fig. 2, Cook shows computer chassis frame (10) having a convex surface (P) on an upward facing plane (12) of the frame (10), wherein the convex surface is configured to support a chassis cover installed on the chassis frame. The phrase "to support a chassis cover installed on the chassis frame" constitutes intended use and is given no patentable weight.

Regarding claim 13: In Fig. 2, Cook shows a computer chassis frame (10) and means for supporting (P) the chassis cover when fitted over the computer chassis frame. In Fig. 3, Cook shows a chassis cover (22) for fitting over the computer chassis frame (10).

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- a. A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (U.S. Patent 6,754,071), in view of Cook (U.S. Patent 6,053,586). In Fig. 1, Lin shows computer chassis apparatus (200) comprising a chassis frame (200) having a load-bearing surface (262), but

lacks one or more rounded portions on the load-bearing surface, each rounded portion protruding upwardly from the load-bearing surface and configured to support a chassis cover installed on the chassis frame. In Fig. 2, Cook teaches computer chassis apparatus (10) comprising a chassis frame (10) having a load-bearing surface (12) with one or more rounded portions (P) on the load-bearing surface (12), each rounded portion (P) protruding upwardly from the load-bearing surface (12) and configured to support a chassis cover installed on the chassis frame. It would have been obvious to one skilled in the art at the time of invention to add the one or more rounded portions of Cook to the load-bearing surface of Lin in order to support a chassis cover.

13. Claims 3 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cook (U.S. Patent 6,053,586), in view of Jeong (U.S. Patent 6,406,624).

Regarding claim 3: In Fig. 2, Cook shows the computer chassis apparatus (10) of claim 1, wherein the load-bearing surface (12) of the chassis frame (10) includes a plurality of rounded portions (P) protruding upwardly from the load-bearing surface (12) but lacks a rail. In Fig. 1, Jeong teaches a rail (40) as part of a computer chassis (20). It would have been obvious to one skilled in the art at the time of invention to incorporate the rail of Jeong with the chassis and plurality of rounded portions of Cook in order to reinforce the load-bearing surface of the computer chassis.

Regarding claim 15: In Fig. 2, Cook shows the computer chassis apparatus (10) of claim 1, but lacks a load-bearing surface comprising a rail bordering the top of the chassis frame. In Fig. 1, Jeong teaches a rail (40) bordering the top of a chassis frame (20). It would have been obvious to one skilled in the art at the time of invention to incorporate the load-bearing rail of

Jeong with the chassis and plurality of rounded portions of Cook in order to reinforce the load-bearing surface of the computer chassis.

14. Claims 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (U.S. Patent 6,754,071), in view of Cook (U.S. Patent 6,053,586), as applied to claim 1 above, and further in view of Chang (U.S. Patent 5,164,886).

Regarding claim 7: In Fig. 1, Lin, as modified by Cook, shows the apparatus of claim 1, but lacks a removable structure adapted to be installed within a computer chassis and fit with at least some of the rounded portions of the chassis frame. In Fig. 1, Chang teaches a removable structure (6) adapted to be installed within a computer chassis (2) with tabs (60) and apertures (601) able to fit with at least some of the rounded portions of the chassis frame. It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate the removable structure of Chang with the apparatus of Lin, as modified by Cook, in order to provide a removable structure to house computer components.

Regarding claim 8: In Fig. 1, Lin, as modified by Cook and Chang, shows the apparatus of claim 7, wherein the removable structure is configured to house at least one computer component.

Regarding claim 9: In Fig. 1, Lin, as modified by Cook and Chang, shows the apparatus of claim 7, wherein the removable structure receives the rounded portions of the chassis frame to secure the removable structure.

Regarding claim 10: In Fig. 1, Lin, as modified by Cook and Chang, shows the apparatus of claim 7, wherein the removable structure includes a hollow tab configured to fit around a perimeter of the rounded portions of the chassis frame, as best understood.

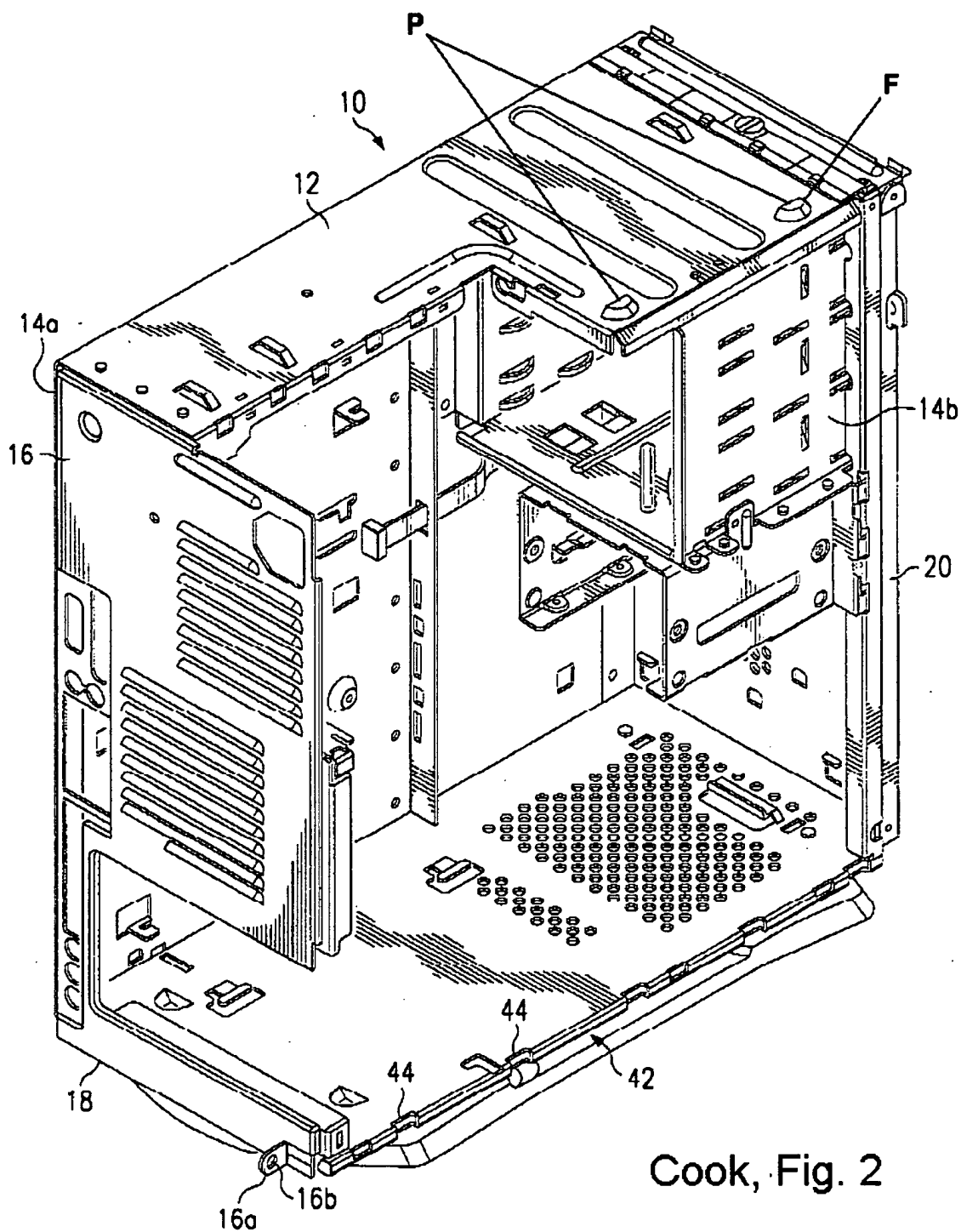
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Regarding claim 11: In Fig. 1, Lin, as modified by Cook and Chang, shows the apparatus of claim 7, wherein the removable structure is laterally restrained by the rounded portions when installed on the chassis frame.

15. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (U.S. Patent 6,754,071), in view of Cook (U.S. Patent 6,053,586), and further in view of Chang (U.S. Patent 5,164,886). In Fig. 1, Lin shows a computer chassis apparatus (200) comprising a computer chassis frame (200) with at least two upward facing surfaces (262), but lacks a plurality of oblong rounded domes formed into the upward facing surfaces of the computer chassis frame and distributed evenly along the surfaces, a removable drive frame for supporting a plurality of drives of different sizes adapted to be installed within the computer chassis, the removable drive frame comprising an interface structures corresponding to each rounded dome, each interface structure fitted to each rounded dome. In Fig. 2, Cook teaches a plurality of oblong rounded domes (P) formed into the upward facing surface (12) of a computer chassis frame (10). In Fig. 1, Chang teaches a removable drive frame (6) adapted to be installed within a computer chassis (2), the removable drive frame (6) comprising interface structures (60, 601) capable of interfacing with rounded domes. It would have been obvious to one of ordinary skill in the art at the time of invention to evenly distribute the plurality of oblong rounded domes of Cook on the upwardly facing surfaces of Lin in order to support a cover and provide means for restraining a removable drive support. It would have been obvious to one of ordinary skill in the art at the time of invention to incorporate the removable drive frame of Chang with the chassis of Lin, as modified by Cook, in order to

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support a plurality of drives of different sizes. The phrase "for a form factor computer" constitutes intended use and is given no patentable weight.



Cook, Fig. 2

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Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ho '219, Toor, Dewey, Ho '804, McAnally, Cook '532, Liao, Chen '777, Wang, Cheng, '267, Cheng '686, Yu '178, Chen '179, Lane, Navia, Radloff, Mroz, Gebara, Johnson, Chen '818, Chen '238, Gan, Chen '653, Chen '039, Chen '442, Ho '515, Yu '977, Liu, and Su all show aspects of the current invention.
17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James T. Nelson whose telephone number is (571) 272-1491. The examiner can normally be reached M-F 9:00am - 5:30pm.
18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on (571) 272-6867. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JTN

10/28/2005

LANNA MAI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600

Lanna Mai